PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 157405.2 SB		Form PCT/ISA/220 ere applicable, item 5 below.			
International application No. PCT/IL04/01172	International filing date (day/month/year) 29 December 2004 (29.12.2004)	(Earliest) Priority Date (day/month/year) 29 December 2003 (29.12.2003)			
Applicant SAGI-EISENBERG					
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of					
may, within one month from 6. With regard to the drawings, a. the figure of the drawings to be as suggested by the as selected by this as selected by this	I, according to Rule 38.2(b), by this Authority of the date of mailing of this international search published with the abstract is Figure No applicant. Authority, because the applicant failed to suggestathority, because this figure better characterizes.	report, submit comments to this Authority.			
b. none of the figures is to be published with the abstract.					

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Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)			
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:			
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:			
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).			
Box No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)			
This Internati Please See Co	onal Searching Authority found multiple inventions in this international application, as follows: ontinuation Sheet			
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.			
2.	As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of any additional fees.			
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:			
5-7				
4. 🔀	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-19			
Remark on	Protest The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.			
	The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.			
	No protest accompanied the payment of additional search fees.			

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International application No.

PCT/IL04/01172

A. CLASSIFICATION OF SUBJECT MATTER						
IPC: G01N 33/53(2006.01),33/533(2006.01),33/534(2006.01),33/535(2006.01)						
USPC: 435/7.1,7.91,7.94 According to International Patent Classification (IPC) or to both national classification and IPC						
В.	FIELI	DS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols) U.S.: 435/7.1,7.91,7.94						
Docum	nentatio	on searched other than minimum documentation to the	extent that	such documents are included in	the fields searched	
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Medline						
C.	DOCI	JMENTS CONSIDERED TO BE RELEVANT				
Catego		Citation of document, with indication, where ap	nronriate	of the relevant passages	Relevant to claim No.	
<u></u> Y		US 5,650,288 (MACFARLAND et al) 22 July 1997 (1-19	
		column 2, lines 7-29			1-19	
Y		US 4,385,126 (CHEN et al) 24 May 1983 (24.05.1983), column 1, lines 40-47 and 58-62		1-19		
Y		US 6,187,757 (CLACKSON et al) 13 Feb 2001 (13.0 2, lines 4-7, column 7, lines 56-67, and column 4, lines	es 57-62	ļ	1-19	
Y		WO 99/24036 (ORMEROD et al) 20 May 1999 (20.	05.1999), A	Abstract and p9, lines 4-29	5 and 6	
Y		COLIGAN et al. Current Protocols in Imunology, 1991, John Wiley & Sons, Inc., pages 2.1.1-2.1.22, especially pages 2.1.3, 2.1.5, 2.1.7, 2.1,10, and 2.1,17			10-12, 18, and 19	
Α		GINGRAS et al., "Regulation of translation in initiation by FRAP/mTOR", Genes & Dev.,				
A		2001, Vol. 15, pp807-826, especially pages 808-810 US 4,784,943 (WARREN et al) 15 Nov 1988 (15.11.1988), column 1, lines 42-55 and column 2, lines 3-8		1-19		
X F	urther	documents are listed in the continuation of Box C.		See patent family annex.		
•	S	pecial categories of cited documents:	"T"	later document published after the inter	mational filing date or priority	
"A" d	locumen articular	t defining the general state of the art which is not considered to be of relevance		date and not in conflict with the applica principle or theory underlying the inves-		
"E" c	arlier ap	plication or patent published on or after the international filing date	"X"	document of particular relevance; the c considered novel or cannot be consider when the document is taken alone		
c	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		-γ"	document of particular relevance; the c considered to involve an inventive step combined with one or more other such	when the document is	
"O" d	locumen	t referring to an oral disclosure, use, exhibition or other means		being obvious to a person skilled in the	art	
	document published prior to the international filing date but later than the "&" priority date claimed		" &"	&" document member of the same patent family		
Date of the actual completion of the international search		Date of mailing of the international search report				
13 June 2006 (13.06.2006)		16	JUN 2006			
Name and mailing address of the ISA/US		Authoriz	ed officer			
Mail Stop PCT, Atm: ISA/US Commissioner for Patents		Unsu Jung				
P.O. Box 1450 Alexandria, Virginia 22313-1450		Telephone No. 571-272-1600				
Facsimile No. (571) 273-3201						

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C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Α	US 5,504,091 (MOLNAR-KIMBER et al) 2 Apr 1996 (02.04.1996), column 2, lines 7-33 and column 8, line 43-column 9, line 43	1-19
Α	US 5,783,398 (MARCY et al) 21 July 1998 (21.07.1998), Fig. 1	1-19
Α	US 6,476,200 (SABATINI et al) 5 Nov 2002 (05.11.2002), column 5, lines 19-40	i -19
Α	US 6,709,873 B1 (YATSCOFF et al), 23 Mar 2004 (23.03.2004), column 2, lines 10-61	1-19
Α	US 2002/0102617 A1 (MACBEATH et al) 1 Aug 2002 (01.08.2002), p6, paragraph [0052] and p8, paragraph [0065]	1-19
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INTERNATIONAL SEARCH REPORT	International application No.	
THE TOTAL SEARCH REFORT	PCT/IL04/01172	
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DOV HI ODGEDIVATIONS WITHOUT A STREET		
BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKII		
This application contains the following inventions or groups of inventions which are	not so linked as to form a single general inventive	
concept under PCT Rule 13.1. In order for all inventions to be examined, the approp		
Group I, claim(s) 1-19, drawn to an assay for determining rapamycin or rapamycin-a	nalog concentrations in a sample.	
Group II, claim(s) 20-31, drawn to a kit for determining rapamycin concentrations or	rapamycin-analog concentrations in a sample.	
The inventions listed as Groups I and II do not relate to a single general inventive co 13.2, they lack the same or corresponding special technical features for the following the FKBP12 protein and mTOR, which binds to the rapamycin/FKBP12 complex. T PCT Rule 13.2 because the element is shown in the prior art. U.S. Patent No. 6,270, rapamycin to induce interaction between its receptor FKBP12 protein and a partner passay to detect biomolecular interactions in vivo (column 29, line 61- column 30, line 6	reasons: The special technical feature in all groups is his element cannot be a special technical feature under 964 (Michnick et al., Aug. 7, 2001) teaches a use of protein mTOR in a protein framment complementation	
, which is the contains 25, the off-contains 30, in	e 31).	
Form DCT/ICA/DLO (control of the DCC)		
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